

Serial No. 09/972,949

IN THE CLAIMS:

The text of all pending claims, (including withdrawn claims) is set forth below. Cancelled and not entered claims are indicated with claim number and status only. The claims as listed below show added text with underlining and deleted text with ~~strikethrough~~. The status of each claim is indicated with one of (original), (currently amended), (cancelled), (withdrawn), (new), (previously presented), or (not entered).

Please CANCEL claims 5 and 10 in accordance with the following:

1. (Cancelled)

2. (Previously Presented) A rolling bearing assembly having a temperature sensor built therein, which bearing assembly comprises:

stationary and rotary bearing rings one positioned inside the other;
a sealing member secured to the stationary bearing ring; and
the temperature sensor secured to the sealing member to measure a temperature inside the bearing assembly,

wherein the sealing member includes a plate-like core metal fitted to the stationary bearing ring, and an elastic member made of one of rubber or resin and integrated together with the core metal, and

the temperature sensor is secured to a plate surface of the core metal in contact therewith, at an intermediate portion of the core metal, to determine a temperature of the core metal.

3. (Previously Presented) A rolling bearing assembly having a temperature sensor built therein, which bearing assembly comprises:

stationary and rotary bearing rings one positioned inside the other;
a sealing member secured to the stationary bearing ring; and
the temperature sensor secured to the sealing member to measure a temperature inside the bearing assembly,

wherein the sealing member includes a plate-like core metal fitted to the stationary bearing ring, and an elastic member made of one of rubber or resin and integrated together with the core metal and wherein the temperature sensor is secured to a plate surface of the core metal in contact therewith, to determine a temperature of the core metal, and

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the core metal includes a cylindrical portion mounted on a peripheral surface of the stationary bearing ring which confronts the rotary bearing ring, a flange portion engaged to at least one annular end face of the stationary bearing ring, and a slant portion bent from an inner end of the cylindrical portion so as to extend diagonally radially therefrom and wherein the temperature sensor is disposed within a space delimited by and between the cylindrical portion and the slant portion.

4. (Previously Presented) The rolling bearing assembly as claimed in Claim 2, wherein the temperature sensor is directly molded with the elastic member.

5. (Cancelled)

6. (Previously Presented) A rolling bearing assembly including stationary and rotary bearing rings, one positioned inside the other, and a temperature sensor, the rolling bearing assembly comprising:

a sealing member secured to the stationary bearing ring and comprising a core metal and an elastic member made of one of rubber or resin and integrated together with the core metal, the temperature sensor contacting and being affixed to a plate surface of the core metal, at an intermediate portion of the core metal, and determining a temperature of the core metal.

7. (Previously Presented) The rolling bearing assembly as claimed in claim 6, wherein the temperature sensor is directly molded with the elastic member.

8. (Withdrawn) The rolling bearing assembly as claimed in claim 2, wherein the temperature sensor does not contact the elastic member.

9. (Withdrawn) The rolling bearing assembly as claimed in claim 6, wherein the temperature sensor does not contact the elastic member.

10. (Cancelled)